

providing a notification to a display manager of the addition of the input/output device to the frame buffer associated with the computer system, when the input/output device is determined to be an added display device; and

associating, by the display manager, the frame buffer associated with the computer system with the added display device.

23. (New) The method of claim 22, comprising the step of:  
registering, by the display manager, the added display device as a new display device in response to the notification.

24. (New) The method of claim 23, wherein the step of registering comprises the steps of:

determining a location in a memory of a display driver associated with the added display device; and

storing the location of the display driver associated with the added display device.

25. (New) The method of claim 22, wherein the step of determining comprises the steps of:

communicating with the input/output device to determine a type of device; and

storing at least one of an identity and the type of device in a memory associated with a device manager.

26. (New) The method of claim 24, comprising the step of:  
activating, by the display manager, the display driver associated with the added display device when the display driver is present in memory and inactive.
27. (New) The method of claim 26, wherein the step of assigning comprises the step of:  
assigning, by the display manager, a portion of a display space to the frame buffer associated with the added display device.
28. (New) The method of claims 27, comprising the step of:  
transferring, by the display manager, objects within the display space from the frame buffer associated with the added display device to a different frame buffer, when the display device is transferred to the different frame buffer.
29. (New) The method of claim 26, comprising the step of:  
accessing, by the display manager, a preferences file to determine whether the added display device was previously connected to the computer system.
30. (New) The method of claim 29, wherein the preferences file identifies a status of displayed objects prior to a change in a configuration of the computer system.

A1

31. (New) The method of claim 29, comprising the step of:  
restoring a display environment to the status identified in the preferences file upon  
determination that the added display device was previously connected to a frame buffer  
associated with the computer system.

32. (New) The method of claim 31, comprising the step of:  
notifying at least one software program executed by the computer system of the  
addition of the added display device.

33. (New) The method of claim 31, comprising the step of:  
launching at least one software program associated with the added display device.

34. (New) The method of claim 31, comprising the step of:  
reconfiguring at least one computer resource used by the added display device to  
correspond to a status of objects located in the display space.

35. (New) The method of claim 34, wherein the computer resource is a color  
lookup table.

36. (New) The method of claim 22, comprising the steps of:  
receiving an indication of the removal of the input/output device from the frame  
buffer associated with the computer system;

A1  
determining, upon receipt of the indication, whether the input/output device that has been removed was a display device;

providing a notification to the display manager of the removal of the input/output device from the frame buffer associated with the computer system, when the input/output device is determined to be a removed display device; and

storing in a preferences file, by the display manager, a status of displayed objects prior to a change in a configuration of the computer system.

37. (New) The method of claim 36, wherein the step of determining comprises the step of:

retrieving at least one of an identity and a type of device stored in a memory associated with a device manager, wherein at least one of the identify and the type of device is used by the device manager to determine whether the input/output device that has been removed was a display device.

38. (New) The method of claim 36, comprising the step of:

retrieving from the preferences file, by the display manager, the status of displayed objects associated with the change in the configuration of the computer system; and

restoring, by the display manager, a display environment to the retrieved status of displayed objects associated with the change in the configuration of the computer system.

A1

39. (New) The method of claim 36, comprising the step of:  
deleting, by the display manager, an assignment of a portion of a display space of  
the frame buffer associated with the removed display device.
40. (New) The method of claim 39, wherein the step of deleting comprises the  
step of:  
reconfiguring at least one computer resource that was used by the removed display  
device to correspond to the status of objects located in the display space after the change in  
the configuration of the computer system.
41. (New) The method of claim 39, comprising the step of:  
shutting down at least one software program associated with the removed display  
device.
42. (New) The method of claim 39, comprising the step of:  
notifying at least one software program executed by the computer system of the  
removal of the removed display device.
43. (New) A system for reconfiguring a computer system to accommodate  
changes in a display environment, comprising:  
a device manager for receiving an indication of an addition of an input/output  
device to a frame buffer associated with the computer system, and for determining, upon

A1  
receipt of the indication, whether the input/output device that has been added is a display device; and

a display manager for receiving a notification from the device manager of the addition of the input/output device to the frame buffer associated with the computer system, when the input/output device is determined to be an added display device, and for associating the frame buffer associated with the computer system with the added display device.

44. (New) The system of claim 43, wherein the display manager is configured to register the added display device as a new display device in response to the notification.

45. (New) The system of claim 44, wherein the display manager is configured to determine a location in a memory of a display driver associated with the added display device, and to store the location of the display driver associated with the added display device.

46. (New) The system of claim 43, wherein the device manager is configured to communicate with the input/output device to determine a type of device, and to store at least one of an identity and the type of device in a memory associated with a device manager.

A1  
47. (New) The system of claim 45, wherein the display manager is configured to activate the display driver associated with the added display device when the display driver is present in memory and inactive.

48. (New) The system of claim 47, wherein the display manager is configured to assign a portion of a display space to the frame buffer of the added display device.

49. (New) The system of claims 48, wherein the display manager is configured to transfer objects within the display space from the frame buffer associated with the added display device to a different frame buffer, when the display device is transferred to the different frame buffer.

50. (New) The system of claim 45, wherein the display manager is configured to access a preferences file to determine whether the added display device was previously connected to the computer system.

51. (New) The system of claim 50, wherein the preferences file identifies a status of displayed objects prior to a change in a configuration of the computer system.

52. (New) The system of claim 50, wherein the display manager is configured to restore a display environment to the status identified in the preferences file upon

A1  
determination that the added display device was previously connected to a frame buffer associated with the computer system.

53. (New) The system of claim 52, wherein the display manager is configured to notify at least one software program executed by the computer system of the addition of the added display device.

54. (New) The system of claim 52, wherein the display manager is configured to launch at least one software program associated with the added display device.

55. (New) The system of claim 52, wherein the display manager is configured to reconfigure at least one computer resource used by the added display device to correspond to a status of objects located in the display space.

56. (New) The system of claim 55, wherein the computer resource is a color lookup table.

57. (New) The system of claim 43, wherein the device manager is configured to receive an indication of the removal of the input/output device from the frame buffer associated with the computer system, and to determine, upon receipt of the indication, whether the input/output device that has been removed was a display device, and



A1  
wherein the display manager is configured to receive a notification from the device manager of the removal of the input/output device from the frame buffer associated with the computer system, when the input/output device is determined to be a removed display device, and to store in a preferences file a status of displayed objects prior to a change in a configuration of the computer system.

58. (New) The system of claim 57, wherein the device manager is configured to retrieve at least one of an identity and a type of device stored in a memory associated with a device manager, wherein at least one of the identify and the type of device is used by the device manager to determine whether the input/output device that has been removed was a display device.

59. (New) The system of claim 57, wherein the display manager is configured to retrieve from the preferences file the status of displayed objects associated with the change in the configuration of the computer system, and to restore a display environment to the retrieved status of displayed objects associated with the change in the configuration of the computer system.

60. (New) The system of claim 57, wherein the display manager is configured to delete an assignment of a portion of a display space of the frame buffer associated with the removed display device.

A1  
61. (New) The system of claim 60, wherein the display manager is configured to reconfigure at least one computer resource that was used by the removed display device to correspond to the status of objects located in the display space after the change in the configuration of the computer system.

62. (New) The system of claim 60, wherein the display manager is configured to shut down at least one software program associated with the removed display device.

63. (New) The system of claim 60, wherein the display manager is configured to notify at least one software program executed by the computer system of the removal of the removed display device.

64. (New) A computer-readable medium containing a device manager program and a display manager program, wherein the device manager program performs the steps of:

receiving an indication of an addition of an input/output device to a frame buffer associated with a computer system, and

determining, upon receipt of the indication, whether the input/output device that has been added is a display device;

and wherein the display manager program performs the steps of:

AM receiving a notification from the device manager program of the addition of the input/output device to the frame buffer associated with the computer system, when the input/output device is determined to be an added display device, and

associating the frame buffer associated with the computer system with the added display device.

65. (New) The computer-readable medium of claim 64, wherein the display manager program performs the step of:

registering the added display device as a new display device in response to the notification.

66. (New) The computer-readable medium of claim 65, wherein the display manager program performs the steps of:

determining a location in a memory of a display driver associated with the added display device;

storing the location of the display driver associated with the added display device.

67. (New) The computer-readable medium of claim 64, wherein the device manager program performs the steps of:

communicating with the input/output device to determine a type of device; and

storing at least one of an identity and the type of device in a memory.

68. (New) The computer-readable medium of claim 66, wherein the display manager program performs the step of:

activating the display driver associated with the added display device when the display driver is present in memory and inactive.

69. (New) The computer-readable medium of claim 68, wherein the display manager program performs the step of:

assigning a portion of a display space to the frame buffer associated with the added display device.

70. (New) The computer-readable medium of claim 69, wherein the display manager program performs the step of:

transferring objects within the display space from the frame buffer associated with the added display device to a different frame buffer, when the display device is transferred to the different frame buffer.

71. (New) The computer-readable medium of claim 68, wherein the display manager program performs the step of:

accessing a preferences file to determine whether the added display device was previously connected to the computer system.

A1 72. (New) The computer-readable medium of claim 71, wherein the preferences file identifies a status of displayed objects prior to a change in a configuration of the computer system.

73. (New) The computer-readable medium of claim 71, wherein the display manager program performs the step of:  
restoring a display environment to the status identified in the preferences file upon determination that the added display device was previously connected to the computer system.

74. (New) The computer-readable medium of claim 73, wherein the display manager program performs the step of:  
notifying at least one software program executed by the computer system of the addition of the added display device.

75. (New) The computer-readable medium of claim 73, wherein the display manager program performs the step of:  
launching at least one software program associated with the added display device.

76. (New) The computer-readable medium of claim 73, wherein the display manager program performs the step of:

AM  
reconfiguring at least one computer resource used by the added display device to correspond to a status of objects located in the display space.

77. (New) The computer-readable medium of claim 76, wherein the computer resource is a color lookup table.

78. (New) The computer-readable medium of claim 64, wherein the device manager program performs the steps of:

receiving an indication of the removal of the input/output device from the frame buffer associated with the computer system;

determining, upon receipt of the indication, whether the input/output device that has been removed was a display device; and

wherein the display manager program performs the steps of:

receiving a notification from the device manager program of the removal of the input/output device from the frame buffer associated with the computer system, when the input/output device is determined to be a removed display device; and

storing in a preferences file a status of displayed objects prior to a change in a configuration of the computer system.

79. (New) The computer-readable medium of claim 78, wherein the device manager program performs the step of retrieving at least one of an identity and a type of device stored in a memory associated with a device manager, wherein at least one of the

A/ identify and the type of device is used by the device manager to determine whether the input/output device that has been removed was a display device.

80. (New) The computer-readable medium of claim 78, wherein the display manager program performs the steps of:

retrieving from the preferences file the status of displayed objects associated with the change in the configuration of the computer system; and

restoring a display environment to the retrieved status of displayed objects associated with the change in the configuration of the computer system.

81. (New) The computer-readable medium of claim 78, wherein the display manager program performs the step of:

deleting an assignment of a portion of a display space of the frame buffer associated with the removed display device.

82. (New) The computer-readable medium of claim 81, wherein the display manager program performs the step of:

reconfiguring at least one computer resource that was used by the removed display device to correspond to the status of objects located in the display space after the change in the configuration of the computer system.

83. (New) The computer-readable medium of claim 81, wherein the display manager program performs the step of:

shutting down at least one software program associated with the removed display device.

84. (New) The computer-readable medium of claim 81, wherein the display manager program performs the step of:

notifying at least one software program executed by the computer system of the removal of the removed display device.

85. (New) A method for reconfiguring a computer system to accommodate changes in a display environment, comprising the steps of:

receiving an indication of an addition of an input/output device to a frame buffer associated with the computer system;

determining, upon receipt of the indication, whether the input/output device that has been added is a display device;

providing a notification of the addition of the input/output device to the frame buffer associated with the computer system, when the input/output device is determined to be an added display device.

86. (New) The method of claim 85, comprising the step of:



A1 associating the frame buffer associated with the computer system with the added display device.

87. (New) The method of claim 85, wherein the step of determining comprises the steps of:

communicating with the input/output device to determine a type of device; and  
storing at least one of an identity and the type of device in a memory associated with a device manager.

88. (New) The method of claim 85, comprising the steps of:  
receiving an indication of the removal of the input/output device from the frame buffer associated with the computer system;  
determining, upon receipt of the indication, whether the input/output device that has been removed was a display device;  
providing a notification of the removal of the input/output device from the frame buffer associated with the computer system, when the input/output device is determined to be a removed display device.

89. (New) The method of claim 88, wherein the step of determining comprises the step of:

retrieving at least one of an identity and a type of device stored in a memory associated with a device manager, wherein at least one of the identify and the type of

A/  
device is used by the device manager to determine whether the input/output device that has been removed was a display device.

90. (New) A system for reconfiguring a computer system to accommodate changes in a display environment, comprising:

a device manager for receiving an indication of an addition of an input/output device to a frame buffer associated with the computer system, for determining, in response to the indication, whether the input/output device that has been added is a display device, and for providing a notification of the addition of the input/output device to the frame buffer associated with the computer system, when the input/output device is determined to be an added display device.

91. (New) The system of claim 90, wherein the device manager is configured to communicate with the input/output device to determine a type of device, and to store at least one of an identity and the type of device in a memory associated with a device manager.

92. (New) The system of claim 90, wherein the device manager is configured to receive an indication of the removal of the input/output device from the frame buffer associated with the computer system, to determine, in response to the indication, whether the input/output device that has been removed was a display device, and to provide a notification of the removal of the input/output device from the frame buffer associated with

the computer system, when the input/output device is determined to be a removed display device.

93. (New) The system of claim 92, wherein the device manager is configured to retrieve at least one of an identity and a type of device stored in a memory associated with a device manager, wherein at least one of the identify and the type of device is used by the device manager to determine whether the input/output device that has been removed was a display device.

94. (New) A computer-readable medium containing a device manager program, wherein the device manager program performs the steps of:

receiving an indication of an addition of an input/output device to a frame buffer associated with a computer system;

determining, in response to the indication, whether the input/output device that has been added is a display device; and

providing a notification of the addition of the input/output device to the frame buffer associated with the computer system, when the input/output device is determined to be an added display device.

95. (New) The computer-readable medium of claim 94, wherein the device manager program performs the steps of:

communicating with the input/output device to determine a type of device; and  
storing at least one of an identity and the type of device in a memory.

96. (New) The computer-readable medium of claim 94, wherein the device manager program performs the steps of:

receiving an indication of the removal of the input/output device from the frame buffer associated with the computer system;

determining, in response to the indication, whether the input/output device that has been removed was a display device; and

providing a notification of the removal of the input/output device from the frame buffer associated with the computer system, when the input/output device is determined to be a removed display device.

97. (New) The computer-readable medium of claim 96, wherein the device manager program performs the step of retrieving at least one of an identity and a type of device stored in a memory associated with a device manager, wherein at least one of the identify and the type of device is used by the device manager to determine whether the input/output device that has been removed was a display device.

---